
Arrangement for Fixing the Gas Generator of an Air Bag Unit

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Patent Claims

1. An arrangement for fixing a gas generator (1) of an air bag unit, which essentially consists of an air bag housing with an inflatable air bag fixed therein, a generator chamber (2) connected to the air bag housing, said gas generator (1) connected to a firing unit, as well as a diffuser, for the gas flowing into the air bag from said gas generator (1) if the air bag is fired, whereby said gas generator (1) is
10 accommodated by said generator chamber (2) and is mounted, with an axial end, in a fixed bearing therein, characterized in that a plate-like, spring-elastic fastening element (3) is pressed in the area of the free axial end of said gas generator (1) lying opposite said fixed bearing between the outer circumference thereof and the inner circumference of said generator chamber (2) axially projecting through said gas generator (1), which [fastening element] is, in a pretensioned state, arched into said
15 generator chamber (2) in the axial direction (x) in a section (4) between said outer wall (10) of said gas generator (1) and said inner wall (20) of said generator chamber (2), whereby it [the fastening element] clings with its outer circumference to said inner wall (20) of said generator chamber (2), at least partially embracing said bottom (6) of said gas generator (1), which is formed at this axial end, and sealing said generator chamber (2).

2. An arrangement in accordance with claim 1, characterized in that said fastening element (3) has an inner lug (5) in its middle inner area.

3. An arrangement in accordance with claim 2, characterized in that said fastening element (3) is partially projected through in the area of its said inner lug (5) optionally by said gas generator (1),
5 whereby said bottom (6) of said gas generator (1), which in this case has a gradation (7) in the axial direction (x) on its contour, is nevertheless partially embraced by said inner lug (5) of said fastening element (3).

4. An arrangement in accordance with claim 2 or 3, characterized in that said gas generator (1) can be connected to said firing unit via a plug in the area of said inner lug (5) formed in said fastening element
10 (3).

5. An arrangement in accordance with one of the claims 1 through 4, characterized in that said fastening element (3) is a stamped metal part made of sheet steel.

6. An arrangement in accordance with claim 5, characterized in that a grounding strap connected to the vehicle ground connection is arranged at said fastening element (3).

7. An arrangement in accordance with one of the claims 1 through 4, characterized in that said fastening element (3) consists of a composite material.
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8. An arrangement in accordance with claim 7, characterized in that said fastening element (3) consists

of sheet steel, which is extrusion-coated around said inner lug (5) and on said inner contour thereof with a plastic.

9. An arrangement in accordance with claim 8, characterized in that said fastening element (3) can be snapped onto said gas generator (1) with its said inner lug (5), such that it is premounted on said gas generator (1), inserted together with this [said gas generator] into said generator chamber (2) and pressed between said gas generator (1) and said generator chamber (2).

10. An arrangement in accordance with claim 1 or 9, characterized in that said fastening element (3) has, on its outer circumference, a microprofiled section that is favorable to its clinging to said inner wall (20) of said generator chamber (2).

11. An arrangement in accordance with claim 10, characterized in that said microcorners (8) are arranged distributed on the outer circumference of said fastening element (3).